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Integrated DELL(TM) REMOTE ACCESS CONTROLLER (iDRAC)

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This document contains updated information about the Integrated Dell Remote Access Controller (iDRAC).

For more information about iDRAC, including installation and configuration information, see the "Integrated Dell Remote Access Controller User's Guide" and the "Dell OpenManage(TM) Server Administrator User's Guide." These documents are located on your Product Documentation CD and on the Dell Support site at "support.dell.com."

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CRITICALITY

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1 - Urgent

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MINIMUM REQUIREMENTS

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The following subsections list operating systems that are compatible with the iDRAC.

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SUPPORTED SYSTEMS

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iDRAC is supported on the following Dell PowerEdge(TM) systems in the Dell PowerEdge M1000-e system enclosure:

- * Dell PowerEdge M600 and M605

SUPPORTED MANAGED SERVER OPERATING SYSTEMS

The iDRAC is supported by the following operating systems:

* Microsoft(R) Windows Server(R) 2003 family

The Windows Server 2003 family includes

- Windows Server 2003 R2 (Enterprise and Standard Editions) with SP2 (32-bit).
- Windows Server 2003 (Web Edition) with SP2 (32-bit).
- Windows Server 2003 R2 Standard and Enterprise Edition with SP2 (32-bit x86_64).
- Windows Server 2003 Standard and Enterprise Editions x64 Editions with SP2.
- Windows Storage Server 2003 R2 Express and Workgroup x64 Editions (x86_64).

* Windows Vista(R) Gold Business and Enterprise Editions.

* Microsoft Windows Server 2008 Web, Standard, and Enterprise Editions (32-bit x86)

* Microsoft Windows Server 2008 Web, Standard, Enterprise and Datacenter (x64) Editions

NOTE: When installing Windows Server 2003 with SP1, be aware of changes to DCOM security settings. For more information, see article 903220 from the Microsoft Support website at "support.microsoft.com/kb/903220."

* Red Hat(R) Enterprise Linux WS, ES, and AS (version 3) (x86 and x86_64).

* Red Hat(R) Enterprise Linux WS, ES, and AS (version 4) (x86 and x86_64).

* Red Hat(R) Enterprise Linux 5 (x86 and x86_64).

* SUSE(R) Linux Enterprise Server 9 with Update 3 (x86_64).

* SUSE Linux Enterprise Server 10 (x86_64) Gold.

SUPPORTED WEB BROWSERS

* Microsoft Internet Explorer 6.0 (32-bit) with SP2 for Windows XP and Windows 2003 R2 SP2 only.

* Microsoft Internet Explorer 7.0 for Windows Vista, Windows XP, and Windows 2003 R2 SP2 only.

* Mozilla Firefox 1.5 (32-bit) on SUSE Linux (version 10) only.

* Mozilla Firefox 2.0 (32-bit).

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FIRMWARE VERSIONS
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* iDRAC Firmware Version: 1.11

RELEASE HIGHLIGHTS (FIRMWARE VERSION 1.11)
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iDRAC version 1.11 has key fixes for Active Directory, Services (SSH, SOL), and in addition, it supports the FlexAddress feature.

RELEASE HIGHLIGHTS (FIRMWARE VERSION 1.03)
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Enhanced TOE key detection.

RELEASE HIGHLIGHTS (FIRMWARE VERSION 1.02)
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A few fixes in the version display, SM-CLP, last crash screen page etc areas are included in this release.

RELEASE HIGHLIGHTS (FIRMWARE VERSION 1.0)
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* Initial release of iDRAC firmware.

iDRAC Management Features for the initial release include:

- * Dynamic Domain Name System (DDNS) registration
- * Remote system management and monitoring using a Web interface, the local RACADM command line interface via console redirection, and the SM-CLP command line over a telnet/SSH connection.
- * Support for Microsoft Active Directory authentication -- Centralizes iDRAC user IDs and passwords in Active Directory using the standard schema or an extended schema.
- * Console Redirection — Provides remote system keyboard, video, and mouse functions.
- * Virtual Media -- Enables a managed server to access a local

media drive on the management station or ISO CD/DVD images on a network share.

- * Monitoring -- Provides access to system information and status of components.
- * Access to system logs -- Provides access to the system event log, the iDRAC log, and the last crash screen of the crashed or unresponsive system that is independent of the operating system.
- * Dell OpenManage(TM) integration -- Enables you to launch the iDRAC Web interface from Dell OpenManage Server Administrator or IT Assistant.
- * iDRAC alert -- Alerts you to potential managed node issues through an email message or SNMP trap.
- * Remote power management -- Provides remote power management functions, such as shutdown and reset, from a management console.
- * Intelligent Platform Management Interface (IPMI) support.
- * Secure Sockets Layer (SSL) encryption -- Provides secure remote system management through the Web interface.
- * Password-level security management -- Prevents unauthorized access to a remote system.
- * Role-based authority -- Provides assignable permissions for different systems management tasks.

KNOWN ISSUES FOR iDRAC
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This section provides additional information about known issues with the iDRAC Firmware version 1.0.

* Configuring iDRAC to use Static IP using 'syscfg' utility

Given below is the method to use the syscfg utility to set the iDRAC to use a static IP address. It has to be done in 2 steps.

Step 1: "syscfg lcp --ipaddrsrc=static"

Wait at least 5 seconds. After this time, the change to static IP will be in effect and the next syscfg command will succeed.

Step 2: "syscfg lcp --gateway=(gateway IP) --ipaddress=(valid IP address) --subnetmask=255.255.255.0"

* Manual OS Installation REQUIREMENT when using 'virtual floppy'

Using vMedia to do a Windows / Other installation, there is one thing REQUIRED to enable completing the installation.

When there is a need to install drivers using a floppy disk - ENSURE the 'Virtual Floppy' device is the FIRST device in the 'Boot Sequence'. Use BIOS Setup screens to ensure this.

This way, the drivers in the floppy can be used to install the storage etc drivers and complete the Windows / Other installation.

* Configuring the 'Host Name String' using the iDRAC Configuration Utility

With OMSA installed -

OMSA takes precedence. OMSA sets the 'Host Name String' every time it starts up. Given above, even if 'Host Name String' is set using the iDRAC Configuration Utility', it will be overwritten by OMSA when it starts up.

With OMSA NOT installed -

The iDRAC Configuration Utility can be used to configure the 'Host Name String'.

* Accessing remote floppy disks and CD-ROMs from (VMWare) VMs

Accessing remote floppy disks and CD-ROMs from (VMWare) VMs is NOT supported.

Only devices directly connected to an ESX server or a floppy or CD-ROM ISO image present in the ESX Service Console can be made accessible to the VM. Avoid this issue by creating an image of the floppy or CD-ROM and copying it to the Service Console.

* Updating iDRAC using DOS update utility, from a PXE network setup

The iDRAC can be updated using the DOS utility when DOS is booted using PXE. However, the new FW image has to be on a local media on the server for this to work properly. Local media can be a RAMDISK, HD or USB key on the server. Alternatively, the update of iDRACs on multiple servers has to be sequenced, i.e. done one server after the other, with the 1st completing update and the 2nd starting update and so on to 3rd after 2nd is done, 4th after 3rd is done etc.

* Usage of virtual CD-ROM in SLES 9

Use the auto-attach checkbox in the vMedia area of the Web GUI of the

iDRAC when using CD-ROM devices in SLES 9.

Another way to do the same when using SM-CLP is to set the `/system1/sp1/oem Dell_vmservice1 enabledstate` to `VMEDIA_AUTO_ATTACH`.

* Setting of iDRAC time, after an iDRAC FW update

With OMSA installed -

When iDRAC firmware is updated, with OMSA installed, iDRAC's time is set by OMSA every 4 hours. This means about 4 hours after iDRAC is updated, it will receive the correct time from OMSA. From that point, the iDRAC will use that time for time stamping events in SEL, etc.

With OMSA `_not_` installed -

When iDRAC firmware is updated, with OMSA not installed, iDRAC's time is set by BIOS. For that to happen, the server has to be power cycled. Once the power cycle is completed, i.e., the server is back up, the iDRAC will receive the correct time from BIOS, and that time will be used for time stamping events in SEL, etc.

* RACADM restore default configuration behavior

The `racresetcfg` command in RACADM restores all properties except `cfgDNSRacName` in the `cfgLanNetworking` group to their default values.

* Configuring iDRAC using RACADM config

The actual time the user needs to wait after executing the `racresetcfg` command within `racadm` may vary depending on the network speed.

* iDRAC Media Redirection using floppy disks on Vista management station with IE7 and ActiveX

The iDRAC's IP address needs to be added to the 'Trusted Sites' list, before launching the Console Redirection session on a management station running Vista with IE7.

- 1 Click Tools-> Internet Options-> Security-> Trusted sites.
- 2 Click Sites and enter the IP address or DNS name of the iDRAC.
- 3 Click Add.

* Configuring specific DNS parameters using '`racadm config -f <filename>`'

DHCP has to be enabled on the iDRAC for the following two DNS parameters to be configurable, using '`racadm config -f <filename>`' -
1) `cfgDNSServersFromDHCP`, 2) `cfgDNSDomainNameFromDHCP`.

* Behavior of the iDRAC Virtual Media functionality, when the media is removed

On Windows -

Once the media is removed, the Explorer window(s) for this media do not close by themselves.

User action IS required. Please close the Explorer window(s), once the media is removed.

On Linux -

Once the media is removed, the file browser window(s) for this media do close by themselves.

User action is NOT required.

* Saving the image of the 'Last Crash Screen' from the iDRAC GUI

First, go to the 'Last Crash Screen' page on the iDRAC GUI. Then:

Internet Explorer -

To save the image of the 'Last Crash Screen', right-click on the image and click 'Save Picture As'. Then, browse to a location and save the image.

Firefox -

To save the image of the 'Last Crash Screen', right-click on the image and click 'Save Image As'. Then, browse to a location and save the image.

* Using the iVMCLI tool from within a system running Windows Vista

To use iVMCLI from within a system running Windows Vista -

The user has to start up the 'cmd' with 'Run as Administrator'.
(iVMCLI requires the user has 'administrator' privileges when it is used.)

Aside -

User can log in as a non-admin user, but when using iVMCLI, the user has to start 'cmd' with 'Run as Administrator' thereby giving them admin privileges to enable using iVMCLI.

KNOWN ISSUES FOR DOCUMENTATION
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This section provides additional information about known issues with

the iDRAC Firmware version 1.0 User's Guide.

* None

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